SEQUENCE LISTING

<110> Kazakov, Sergei A.
      Dallas, Anne
      Kuo, Tai-Chih
      Johnston, Brian H.

<120> Polynucleotides Capable of
   Target-Dependent Circularization and Topological Linkage

<130> 367592000500

<140> 10/561,691
<141> 2005-12-21

<150> PCT/US2004/020589
<151> 2004-06-25

<150> US 60/482,653
<151> 2003-06-25

<160> 50

<170> FastSEQ for Windows Version 4.0

<210> 1
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ctggtaacag aggc   74

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acttacgtc   69

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taatacgact cactataggg cagccgtcct cgtccgtatg acgagagaag c   51

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2

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<400> 10
gcttctctcg tcatacg   17

<210> 11
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<400> 11
taatacgact cactataggg cagccgtc   28

<210> 12
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ggtgacacta tgatgcatat gacgaggac   29

<210> 13
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<221> misc_feature
<222> 1-5, 10, 13-19, 27-35, 41-48, 54, 56-60

3

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<223> n = A,  U,  G or C

<221> misc_feature
<222> 6
<223> n = U,  C or G

<221> misc_feature
<222> 7, 11, 49
<223> n = U or C

<221> misc_feature
<222> 8, 25
<223> n = A, C or U

<221> misc_feature
<222> 12
<223> n = A or G

<221> misc_feature
<222> (55)...(55)
<223> n = A, C or G

<400> 13
nnnnnnnngn nnnnnnnnca uuanannnnn nnnncaaagn nnnnnnnnga agnnnnnnn     59

<210> 14
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<400> 14
ucggaacagg gaacuucucu ug                                             22

<210> 15
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<220>
<223> Synthetic Construct

<400> 15
ccagucaaga gaaguucccu guuccgagcc cuuuuuuucc uugucccuug aagagaacug 60
guccauuaua uggguuugca cacaaagaga ccaacugaag agacaguaug ccuguccug  119

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<220>
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<221> misc_feature
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<223> n = A, G, C or U

<400> 16
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augguccauu acauggugcu gaaugcagca cacaaagaga ccagucgaag agagcaguau   120
gccugcuccu gccgacggg                                                139


<210> 17
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<221> misc_feature
<222> (30)...(49)
<223> n = A, G, C or U

<400> 17
ccgaccaaca acaacaacaa caauaagagn nnnnnnnnnn nnnnnnnnnc aaugguccau    60
uacauggugc ugaaugcagc acacaaagag accagucgaa gagagcagua ugccugcucc   120
ug                                                                 122


<210> 18
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<221> misc_feature
<222> (18)...(22)
<223> n = A, C, G or U

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uaugccaggu ccugccgacg gg                                            142


<210> 19
<211> 10
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<223> Synthetic Construct

<400> 19
ccgacucugu                                                          10


<210> 20
<211> 10
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<213> Artificial Sequence
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<400> 20
ccgacucuga                                              10

<210> 21
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<220>
<223> Synthetic Construct

<400> 21
ccgacucuca                                              10

<210> 22
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 22
ccgacucaca                                              10

<210> 23
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 23
ccgacuaaca                                              10

<210> 24
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 24
ccgaccaaca                                              10

<210> 25
<211> 143
<212> RNA
<213> Artificial Sequence

<220>
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<223> Synthetic Construct

<400> 25
auacugcucc ugccgaacuc ucaacaacaa caacaacaac aacacggaua cagagucgga 60
gacaaugguc cauuacaugg ugcugaaugc agcacacaaa gagaccaguc gaagagagca 120
guaugccugc uccugccgac ggg 143

<210> 26
<211> 134
<212> RNA
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<220>
<223> Synthetic Construct

<400> 26
auacugcucc ugccgacucu caacaacaac aacaacaaca acacggauac agagucggag 60
acaauggucc auuacauggu gcugaaugca gcacacaaag agaccagucg aagagagcag 120
uaugccugcu ccug 134

<210> 27
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 27
ucuccgacuc uguauccguc 20

<210> 28
<211> 122
<212> RNA
<213> Artificial Sequence

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<400> 28
ccgacucuca acaacaacaa caacaacaac acggauacag agucggagac aaugguccau 60
uacauggugc ugaaugcagc acacaaagag accagucgaa gagagcagua ugccugcucc 120
ug 122

<210> 29
<211> 12
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<220>
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<400> 29
auacugcucc ug 12

<210> 30
<211> 122

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ug 122

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gccugcuccu gccgacggg 139

<210> 32
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<212> RNA
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<400> 32
gcauacugcu ccugccgacu cacaacaaca acaacaacaa cacggauaca gagucggaga 60
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<210> 34
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ccugcuccug ccgacggg                                                138

<210> 35
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<400> 35
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gguccauuac auggugcuga augcagcaca caaagagacc agucgaagag agcaguaugc 120
cugcuccugc cgacggg                                                137

<210> 36
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<400> 36
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guccauuaca ugguugcugaa ugcagcacac aaagagacca gucgaagaga gcaguaugcc 120
ugcuccugcc gacggg                                                 136

<210> 37
<211> 143
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<220>
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<400> 37
cugcuccugu cggaaccaac aacaacaaca acaacaacaa caagagaagu ucccuguucc 60
gacaaugguc cauuacaugg ugcugaaugc agcacacaaa gagaccaucc gaagagagca 120
guaugccugc uccugucgga ggg                                          143

<210> 38
<211> 143
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 38
cugcuccugu cggaaccaac aacaacaaca acaacaacaa caagagaagu ucccuguucc 60
gaacaugguc cauuacaugg ugcugaaugc agcacacaaa gagaccaucc gaagagagca 120
guaugccugc uccugucgga ggg                                          143
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9

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<220>
<223> Synthetic Construct

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cgaacauggu ccauuacaug gugcugaaug cagcacacaa agagaccauc cgaagagagc 120
aguaugccug cuccugucgg aggg                                      144


<210> 40
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<213> Artificial Sequence

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<400> 40
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cgacaauggu ccauuacaug gugcugaaug cagcacacaa agagaccauc cgaagagagc 120
aguaugccug cuccugucgg aggg                                      144


<210> 41
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 41
ucuccgacuc uguauccgug                                            20


<210> 42
<211> 122
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<213> Artificial Sequence

<220>
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<400> 42
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ug                                                              122


<210> 43
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<220>
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<223> Synthetic Construct

<400> 43
tctcctactc tgtatccgtg   20

<210> 44
<211> 20
<212> DNA
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<220>
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<400> 44
tctcctacgc tgtatccgtg   20

<210> 45
<211> 20
<212> DNA
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<220>
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<400> 45
tctcctactc tgtagccgtg   20

<210> 46
<211> 20
<212> DNA
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<220>
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<400> 46
tctccgactc ggtatccgtg   20

<210> 47
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 47
tctccgactc tttatccgtg   20

<210> 48
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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<400> 48
tctccgactc gttatccgtg                                                    20


<210> 49
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ug                                                                      122
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